

1/15

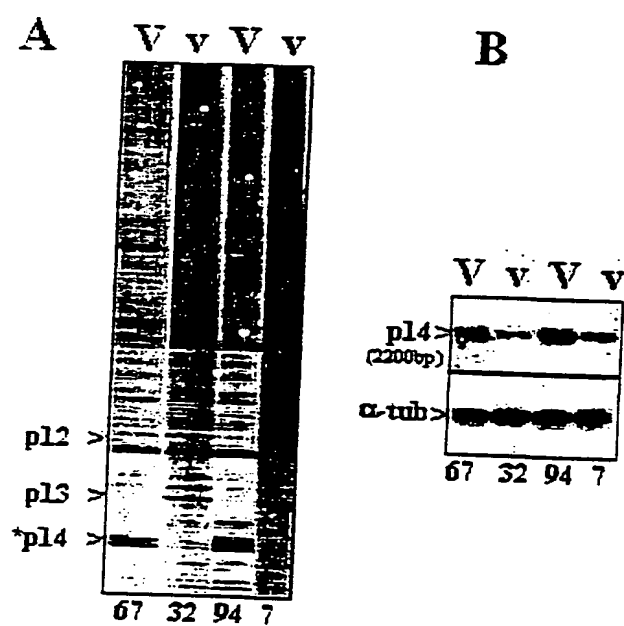


Figure 1

Figure 2

Figure 3 A

L. major 1 -----MORSEVVFVICALFVCVSAEVO-----VATKDNED
 T. brucei 1 -----MRAIEIVVALAATMRESTAESLK-----ETKEN-SN
 H. jecorina 1 -----MOOKRRTAALVAALAAVVSASE-----VKSLLTKDTEN
 C. elegans 1 -----MIVVQAAALVASFLAPASAGGA-----VLEYHOGNEP
 C. reinhard 1 MNRWNLLALTLGLLEVAAPETKHQFAHASDEYEDDEEDAPAAPKDDDDVDVTVMVVKNNL
 D. melano 1 -----MKFLICALFELAAASYVAASAEAEVKVE-----GVLAIVVDNEK
 C. parvum 1 -----MIGIRSLVSAAPLGFSCLSKVVLGSEDAHFIS-----EHITSTSSNFE
 H. sapiens 1 -----MIRRALCLAVAALVRADAFEEED-----HVLVERKSNFA

 L. major 32 KVVIG-DITLVKCYAPWCCHCKTLAPEEVKAADMAGIAT---LAEVDCIKESSTAEKVE
 T. brucei 31 ETIAKSEIFLVKEFYVDTCGYOQMLAPEVEKAANETIDNALMG---EVDCHSOPELAANFS
 H. jecorina 34 DFINSNDITULAESAPWCCHCKALAPEVEEBAATTIKDKS---IKLAKVDCVEBADLCKEHC
 C. elegans 32 DLIQTHDIALVKCYAPWCCHCKTLAPEVEEBAAPKASNDPPVAIVRVDCITKTVCKREG
 C. reinhard 61 ETVKKSKFALVEFYAPWCCHCKTLAPEVEEBAAPKASNDPPVAIVRVDCITKTVCKREG
 D. melano 39 QLIADNEFVLVEFYAPWCCHCKALAPEVEEBAAPKASNDPPVAIVRVDCITKTVCKREG
 C. parvum 45 DFIKSKFHVIVITFAPWCCHCKTALPEEAKATCABSKLSPPVHCSSVDATENMELAQOYG
 H. sapiens 36 BAUAHKKYILVEFYAPWCCHCKALAPEVEEBAAPKASNDPPVAIVRVDCITKTVCKREG

 L. major 88 LKGEPTLYIFRNGE--KVKIVDGBRTAAGHASVKAIVGSSMKALSTAGELBKKETFP
 T. brucei 88 LKGEPTLYIFRNGE--EAEHNGEARTKDDHKKHNAVGPVTPASNAEETRAKEBHV
 H. jecorina 92 VEGYPTILKVERGLD--KVAPYICPRKADGITSNVVQOS-LPAVSALIKETEDFKTADKV
 C. elegans 92 VEGYPTILKIFRNGE--VPAQYVDGPRDADGIVKEMGQSCPSKELKVVAEERFTGGDEN
 C. reinhard 121 VEGYPTILKWFVDEG--ELASDYNGPRDADGIVGAVKGETGPPAVTVEDAKKSEADAEV
 D. melano 99 VEGYPTILKIFRSG--SPVEVSCGQADILAAVTKETGPPAKDLTSVADAEQFLKONET
 C. parvum 105 VSGYPTILKIFSGID--SVQNYSCARSKQAFIKYTHILTCPAVOVAESSEAKTKTFASSSS
 H. sapiens 96 VEGYPTILKIFRNGDITASPKENTAGREADDINNAIKKRTGPAATTIPDGAASSTIVESSEV

 L. major 146 VCVVKTASTISEMASMITKVAOSRSONFVLVTDAAISPNDAMESVT-----VYRKNAE
 T. brucei 146 VCVGLTANNSTISLSTLAEEAQSFRVSLKFFFEAPKLPFDEKPPETIVVYR-----KG
 H. jecorina 149 VIVVYLAADDKASNETITAFANEIRITYLFGGVNDAAVAEAGVKFP---S-JVLMKNSFD
 C. elegans 150 VVIGCFESESCLKDSYLKVADTERDRFSFAHTSNKDTIKKAGYSDDVVVFVPKCHNKED
 C. reinhard 179 VVIGCFKALSGEIIYDEKSYNARTEDVVFVOTTSADVAKAAGLDAVDTVSV-VKNFAGED
 D. melano 156 ALGSEKDLSEEAKEFTKVANALDSFVFGVSSNADVIKYEAKDNG-----WLEHFPED
 C. parvum 163 AFVGRFETSKSAEYAVEKVASGHEHNYAFIAFQEGEQKLEVLHK-----D
 H. sapiens 156 AVRGHFKOVESDSAKQLQASEAADDIPGISTNSDMFSKYOLDKDG-----WLEKKED

 L. major 201 REAYTGATPMTABSVRSITSAVLDFYFGEIGOESEFQKMEANKDKPLGWVFDKN--TDS
 T. brucei 198 GENEVMDGPMVEVKTEFLOHSRVAFGGELTPENYOYYSVIKRP--VGWAMVKPNETASI
 H. jecorina 205 EGRNVESEKFDASAIRNEAQAATPEVGENGPETVAGYMSAGIPLAYIFAETAES---RE
 C. elegans 210 TNEFKYICNYDTCKLKNELVHETVGFASIRTOGNLFQSEQKPIVIVYINVDYVEDPKGSN
 C. reinhard 238 RATAVLATDIDTDSLTAEVSKSEKSEPTTIFNOKNSDKIFNSISINKQLNLWTTADDLKADA
 D. melano 211 DKKSVFEEGEBENENKKAQVQSPHIVDFNHESASKIFG-CSIASHLLFFVSEGGHIE
 C. parvum 211 BEPVSLPMPKTVEBEAKESIMNMPFSATSAENYSLMS--RE--GYTPGSVVLTRTSP
 H. sapiens 211 EGRNNEFEGDYTKENLLDTHKHQNPVIVIEPTETAPKIFG-SEITHILLFUPKSVSDYD

 L. major 259 ALKGSILVAEAKYRSOVLTYHGGCMR--PVSROLCPEDAKFPAPVVOFRRRI-EVMG
 T. brucei 256 BLKESITVEKGRSRHVVLEWNIISKHP--VWRDEGVPEDAKYPAFLAIHWGAN-YLFS
 H. jecorina 262 NLAKILKPVAEKYGKINEAIDAKNEG--SHAGNINLRTDKFPAFAIHDHKNLKFPFD
 C. elegans 270 YWRNRMLKVAONYKRVQFAVSNKEEESSEIEINGLGERKSDKPIVAILTNECK---YP
 C. reinhard 298 EMTVTFREASKKAGOLVSVVANNSEGDGADPVNFFGLKGATSPVLGFFMEKNA-KFRM
 D. melano 270 KYVDPKKEIAKKYRDDILFVTHSSDEEDHTRFEFGMNESEVETIRLIKSEDMARKYK
 C. parvum 267 SYDQTHERTOLITEKSAPLFSIDTEQSG-SHAQOHLLEKFPGLVLOSVMPSIS-YYMG
 H. sapiens 270 GKLSNFTAAESEKGLIFEFIDSHTDNQRILEFFGLKKECPAVRLITHEEMTRYK

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Figure 3 B

L. major 316 TDTPVTSSESVAAEVEKYVKSETKOTVMSDAEPAKETVNGHTTWGQTEAKYTDG-TONVM
T. brucei 312 TAENVVTRSELEK-TILEFAAGRVETTHKSLFYPEVETVDGKTTIVAKTMOKHITS-GKDM
H. jecorina 320 QSKETITEKOTIAA-VDGFSSEKTEASTIKSEPIPETQ-EGPVTVAVVANSYKOTVLDKDKOVL
C. elegans 327 MDQEFSDNLTQQFVDEVLAGNAEPPYKSEPIPEQ--GDVKVAVGRNEKELIMPADKQVL
C. reinhard 357 EG-EFTADNVAKFAESVVDGTAQAVLKSEAIPEDPYEDGVYKIVGKTVESVVIDETKQVL
D. melano 330 ESTDLSAETHIETTKKFTLOGKIKOHLSDIPEDPWDKNPVKVISSNFESVALDKSKSVL
C. parvum 325 PAKEDSVEPLKEFMKOVSEGHKELSIKSEPIPAEQ-SGPVTVVVGKTFEEIVFRSDKQVL
H. sapiens 330 ESEELITAEIRITEFCHRTLEGKIKPHLMSQELPEDPWDKQPVKVIIVGKNEFEDVAFCEKKNVF

L. major 375 ILEFYAPWCGHCKKLEHPMYDRVAKSEES----ENVIIAKGDATINQFDREKFEVSSEPTTHY
T. brucei 371 ILEFYAPWCGHCKNFAPTEDKIAKESDAT---DLIVAEIDATANYVNSSTFTVTAFTVTF
H. jecorina 379 HEFYTPWCGHCKALAEKYDELASLYAKSDFKQVIAKVDATANDVP---DEIIOSEPTTIK
C. elegans 385 HEFYAPWCGHCKSLAPKYDELAELKLNK---EDVIIAKGDATANDVPPM-EEVKGFTPTLF
C. reinhard 416 ILEVYAPWCGHCKLEPIYKGLAKREKK---VDSVIIAKGDG-ENDEPE--IEVKGFTPTIL
D. melano 390 VEFYAPWCGHCKLAPIYDQAEKYKO---NEDVIIAKMDSTANLES--IKUSSFTTIK
C. parvum 384 LEIIVACWCGHCKNLEPIYNQLGEYKO---NDKVVIATKNGPCNDIYEG-SPRAFPTIL
H. sapiens 390 VEFYAPWCGHCKLAPIINDKLGSETYKO---HENIVIAKMDSTANEVEA--VKVHSFTTIK

L. major 431 FIPA--GKPPIVVEG-GRTADEIQVENKSLT-----ASAAPSGGPGSGNS
T. brucei 427 EVPN--GGKQVVEEG-ERSFENVYEVVKHIVTTFKVSEKPANVTEKKSEBENKSSKSNE
H. jecorina 436 LYPAGDKRNPVMSG-ARTVEDHIEIKENSKYKAGVEIPAETEEAASESKASEBARA
C. elegans 440 WLPKNAKSNPIPYNG-GREVKDEVSFISKES-----T---DGLKGFSROGKQK
C. reinhard 471 FYPAGSDRTPIVVEGGTRSLKSLTKKIKTNAKIPYELP---KKGSDGEGTSDDDKKPAS
D. melano 445 VFRK-EDNKVIDENL-DRITLDEIVKPFIDANG-----EVADSEPVETETEESEAP
C. parvum 441 EVKA-GTETPIPYDG-KRTVEAFKEPISEHS-----SFQES-KE
H. sapiens 445 SFPASADRTVIDYNG-ERTLDEGKKFLESGGQDGAGDDDDLEDLEABEPMEETDDQKA

L. major 473 -----EEEDL
T. brucei 484 SNDSNESNVDRKDEL
H. jecorina 495 SEET-----EDEL
C. elegans 484 K-----KDEL
C. reinhard 528 D-----KDEL
D. melano 492 K-----KDEL
C. parvum 477 S-----EDEL
H. sapiens 504 V-----KDEL

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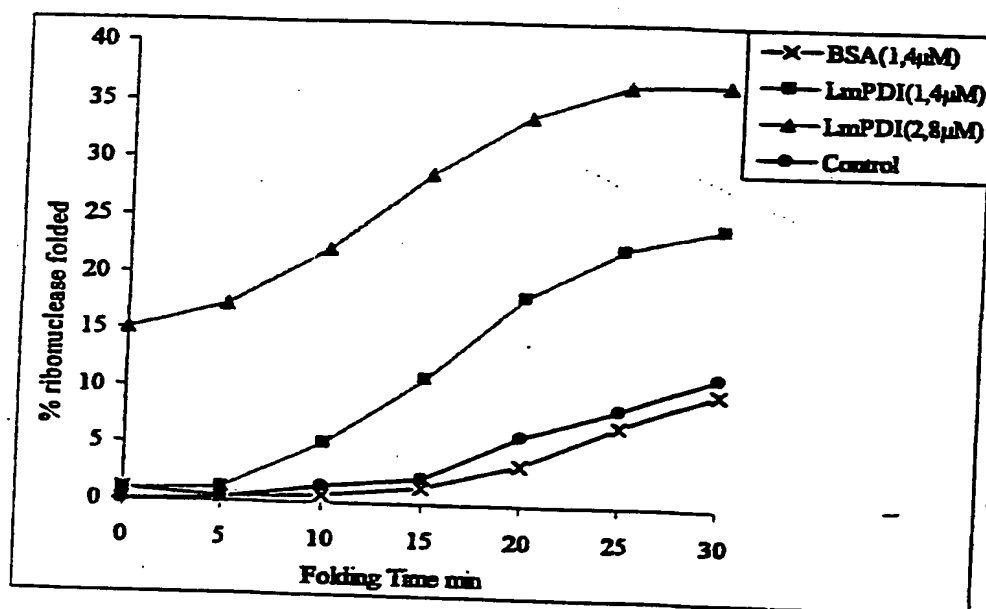


FIGURE 4

6/15

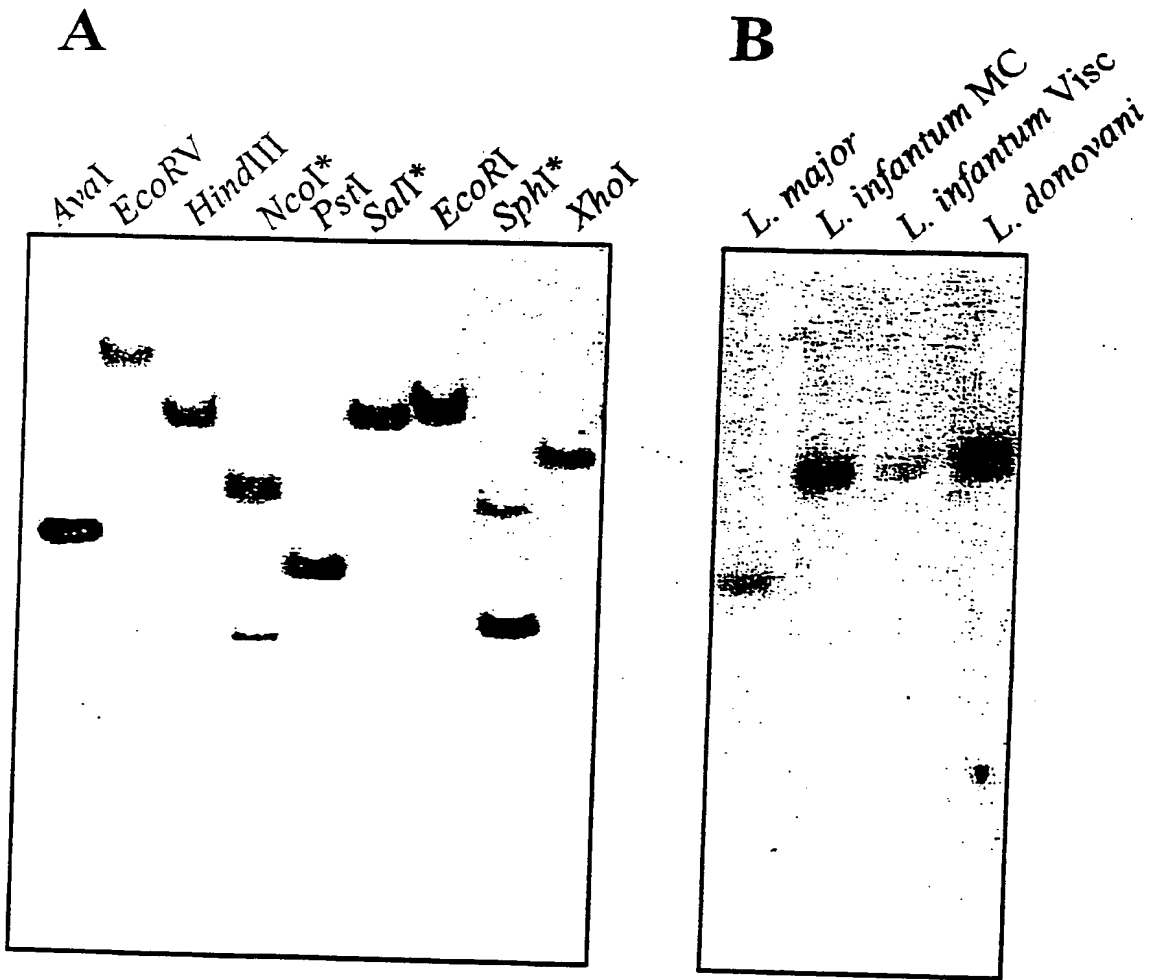


Figure 5

7/15

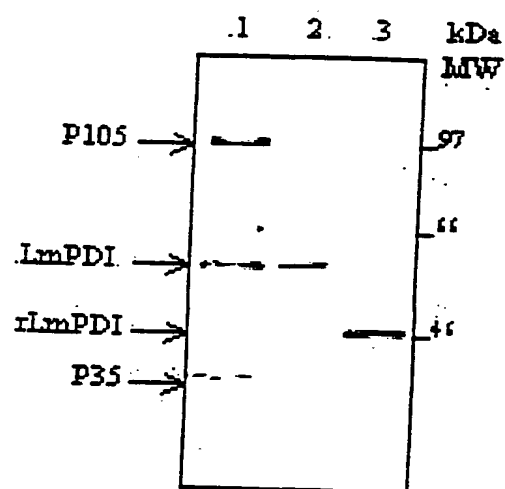


Figure 6

8/15

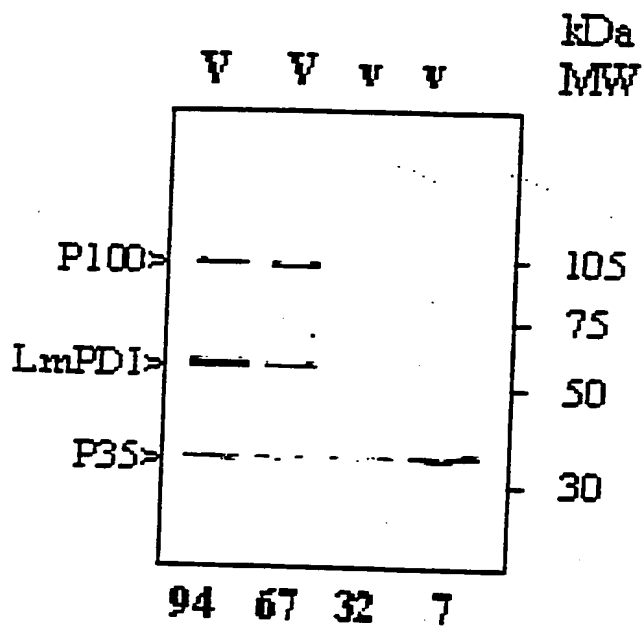


Figure 7

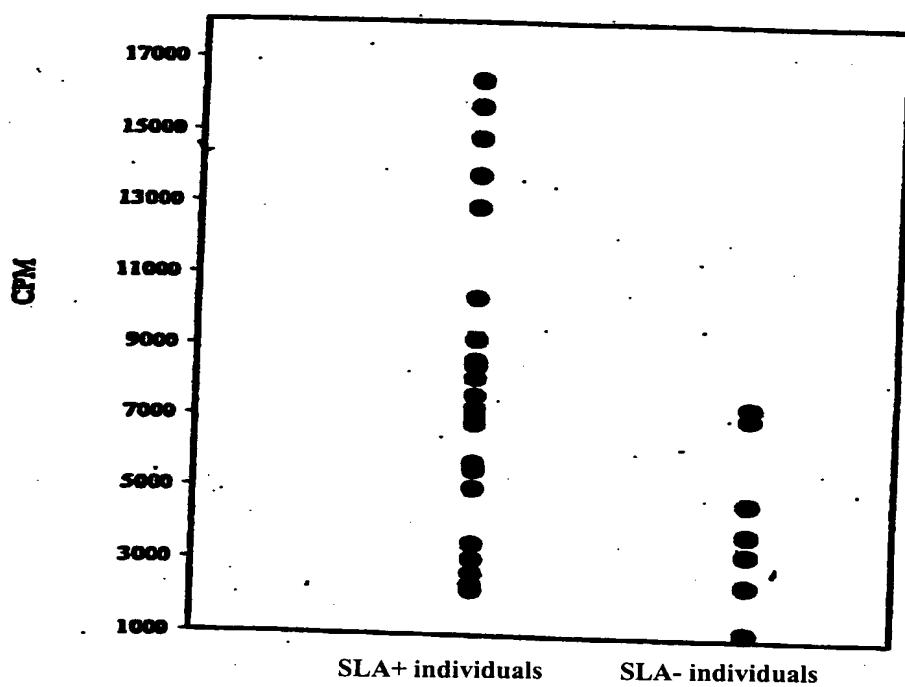


FIGURE 8

10 / 15

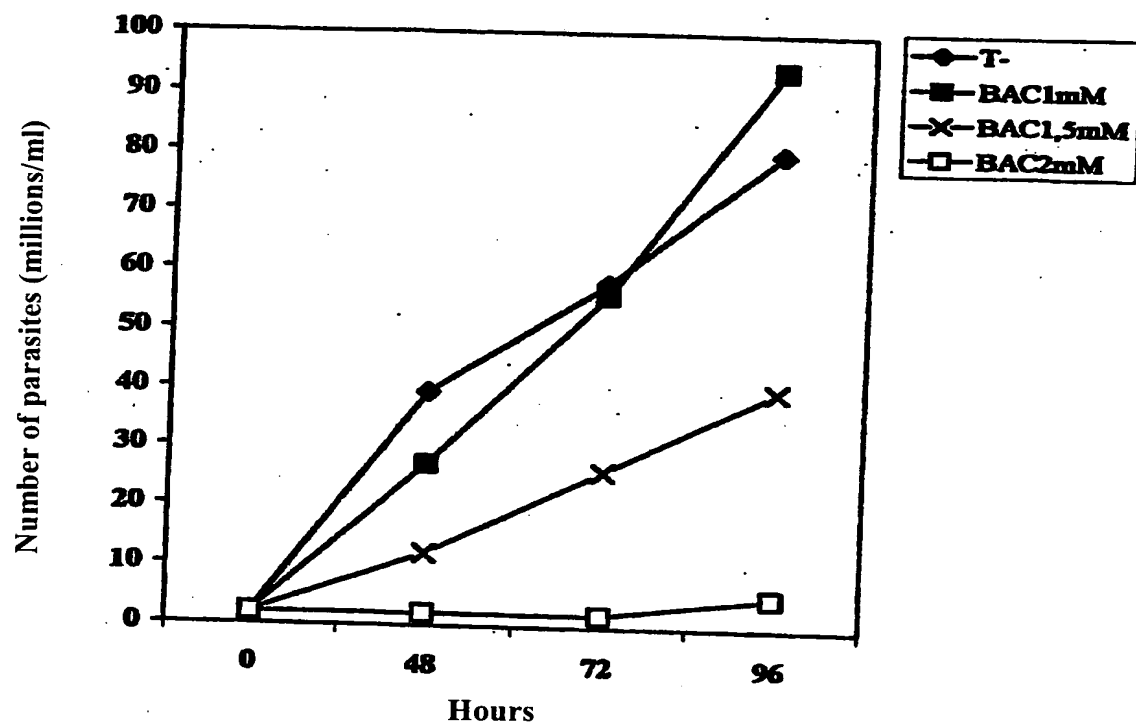


FIGURE 9

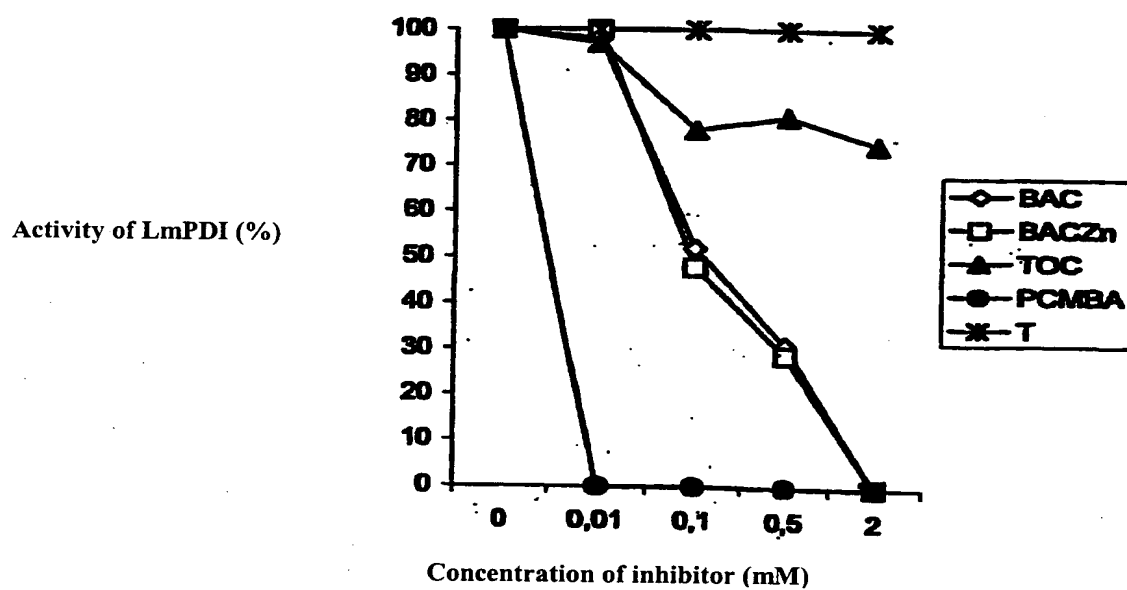


FIGURE 10

12 / 15

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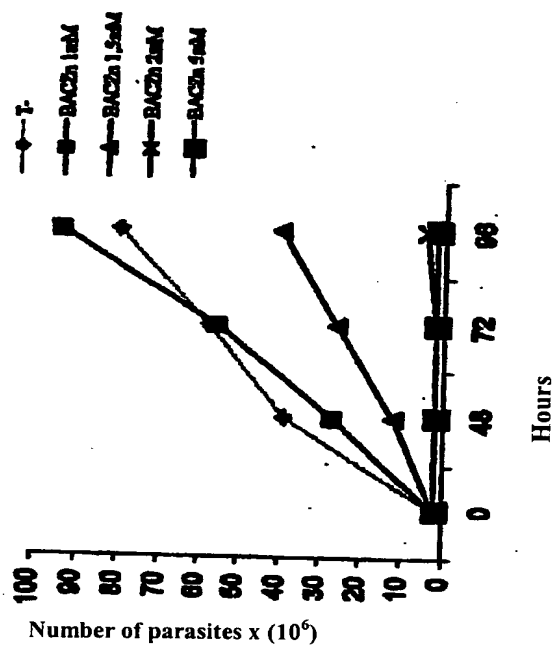


Figure 11 B

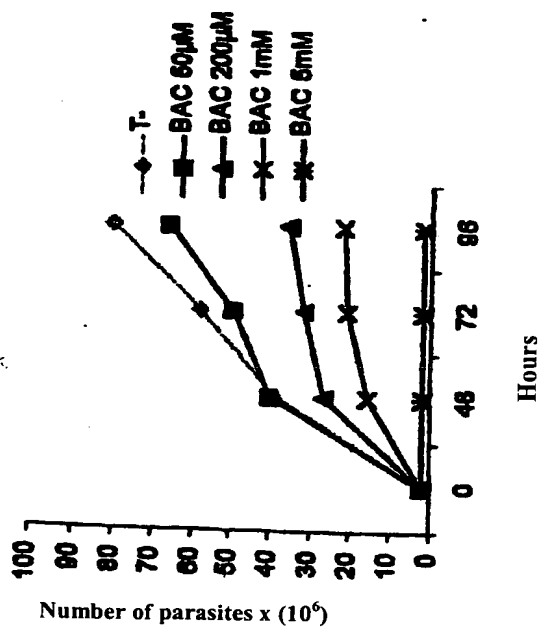


Figure 11 A

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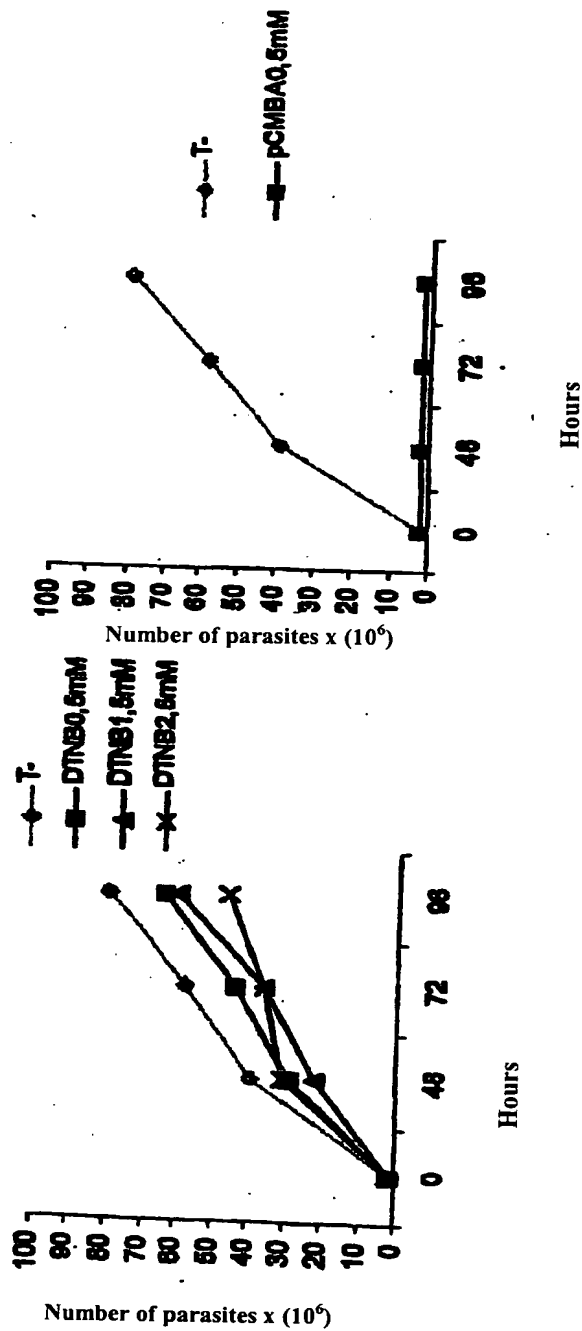


Figure 11 D

Figure 11 C

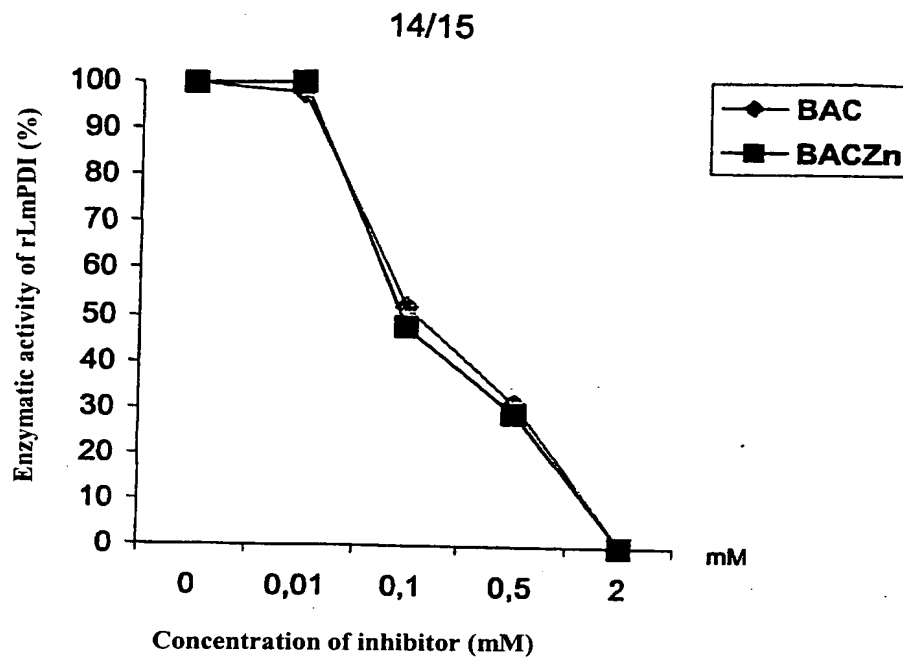


Figure 12

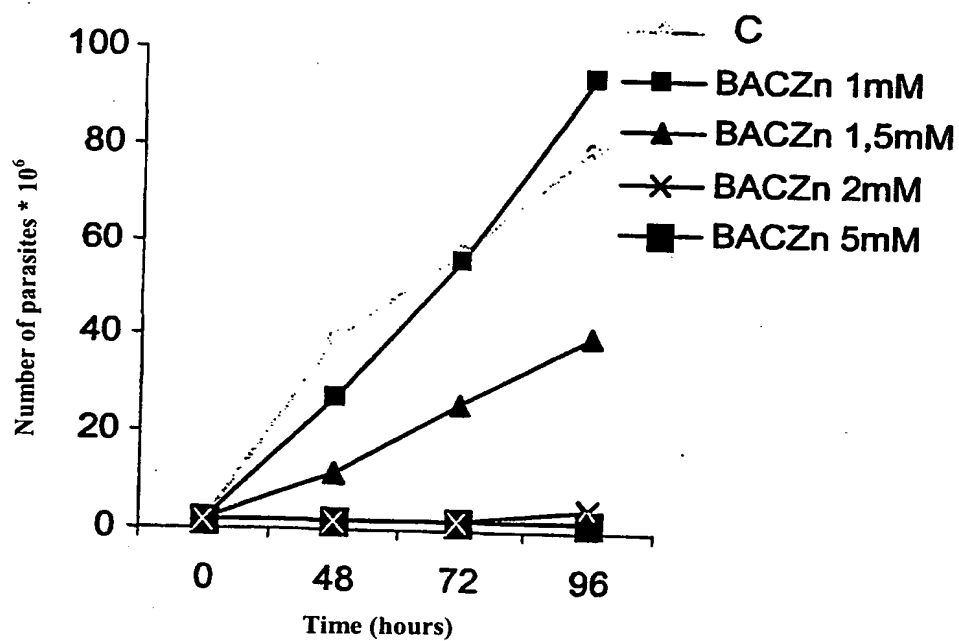


Figure 13

15/15

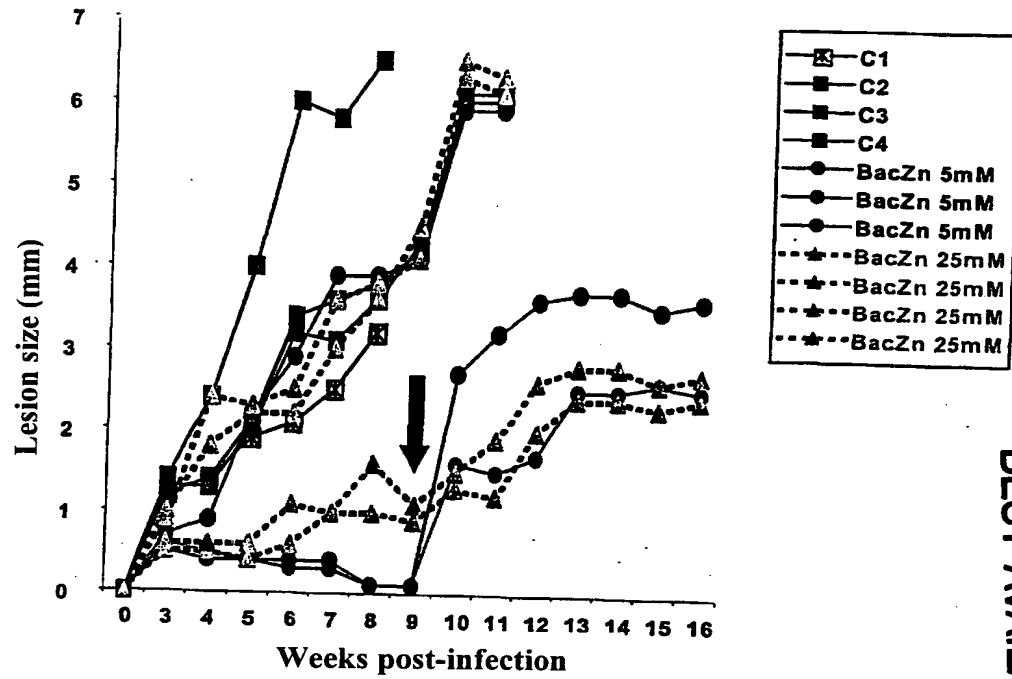


Figure 14

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